

Introduction to Pressurized Cylinder EPR Program

December 13, 2023



Agenda

- Connecticut Meeting
- Development of the PRO
- Pressurized Cylinder Program Plan
- Elements of the Stewardship Program
- Questions



Connecticut Meeting

- Since the legislation passed, formed the Pressurized Cylinder Industry Association (trade association) and The Cylinder Collective (producer responsibility organization)
- Same governance structure as other CT PROs
- Boards have toured CT facilities
- Voluntary parks pilot underway





*Draft

Participating Producers

Representation by The Cylinder Collective is open to all pressurized cylinder producers. The list below includes producers participating in The Cylinder Collective as of July 1, 2023:

1. Worthington Industries Inc.
2. Johnson Outdoors Inc.
3. YSN Imports LLC dba Flame King
4. GSI Outdoors, LLC
5. Manchester Tank & Equipment Co.
6. The Coleman Company, Inc.
7. Unique Industries, Inc.
8. Cascade Designs, Inc.
9. Zippo Manufacturing Company
10. Snow Peak USA

Incorporated as 501(c)(3) non-profit organization last week and have registered with the State

Note two other program plans were submitted by Sodastream and Propane Gas Association of New England (PGANE)

The Cylinder Collective plans to collaborate with the other gas cylinder programs

The Cylinder Collective – Stewardship Plan Application

- Plan was approved September 28, 2023 and work has begun on preparing for implementation
- Expect to have staff hired next year in CT
- Numerous project team members working on key elements that have experience in Canada with these programs
- Start of next year will be focused on resourcing the organization, producer recruitment, establishing systems, key contacts, and contractual terms



September 28, 2023

Annie Lane
The Cylinder Collective
200 W Old Wilson Bridge Road
Columbus, OH 43085

Dear Ms. Lane:

On June 30, 2023, the Department of Energy and Environmental Protection (DEEP) received your gas cylinder stewardship plan in accordance with Section 22a-905a of the Connecticut General Statutes, for the collection and recycling of certain gas cylinders. We are pleased to inform you that this plan has been approved. As part of DEEP's review, we considered responses to the following conditions, as required by the statute.

Any gas cylinder stewardship plan shall, to the extent it is technologically feasible and economically practical:

1. Minimize public sector involvement in the management of discarded gas cylinders;
2. Provide for free, convenient and accessible state-wide opportunities for the receipt of gas cylinders used by consumers for personal, family or household use at eligible entities;
3. Provide for pick-up of gas cylinders from eligible entities; and
4. Provide for the transport and management of discarded gas cylinders picked up from eligible entities in accordance with agreements between producers and eligible entities which shall be consistent with any provision of the law.

Understanding Market Dynamics

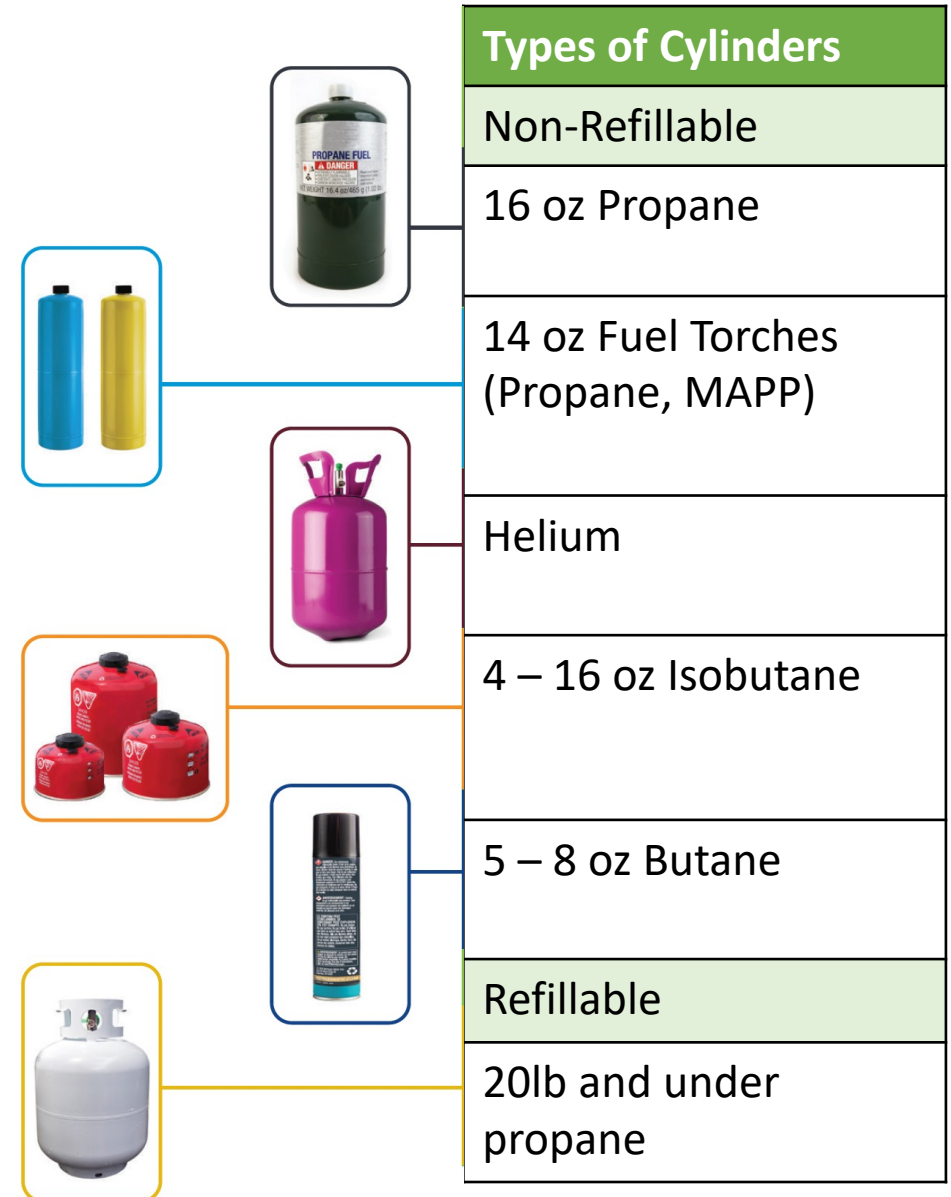
- Program plan is based initial outreach undertaken between August 2021 and proposed approach provided in January 2022 with included:
 - Local governments such as regions, cities and towns, and their associations and transfer stations;
 - Retailers who sell refillable and non-refillable pressurized cylinders and participate in the exchange system for returned refillable pressurized cylinders;
 - Waste management service providers that collect and process pressurized cylinders including the scrap industry;
 - Energy from waste (EFW) facilities;
 - Propane distributors that operate propane exchange networks in Connecticut;
 - State parks and private campgrounds that may receive pressurized cylinders from visitors;
 - Colleges that may receive pressurized cylinders as a result of tail-gate parties; and
 - State government.



[Link to report](#)

In Scope / Exclusions

- **In Scope:**
 - all refillable and non-refillable types of designated cylinders (with a water capacity between 0.5-50lbs) that participating producers supply into Connecticut
- Plan will adjust if new members subscribe (e.g., refillable and non-refillable CO₂ cylinders)
- **Exclusions:**
 - Supplied to industrial, commercial and institutional consumers and pressurized cylinders
 - Containing oxygen, refrigerants, acetylene, hydrogen, ethylene and foam adhesives
 - Fire extinguishers
 - Water capacity of under 0.5 lbs or over 50 lbs



Collection System

- Collection system will rely on various locations:
 - Municipal sites/events – 99 municipalities
 - Disposal/recycling facilities
 - Campgrounds – ~50 private campgrounds
 - State parks – 12 state parks w/ overnight, 2 state forests w/ overnight
 - Pilot at retail
- Where collection gaps exist, the program will explore options in those geographic areas
- Collection sites would be required to meet program operational standards, e.g.,
 - Compliance w/ reg. requirements for collection, handling & staff training
 - Secure storage
 - Record keeping
 - No charge for residents to drop off cylinders
- Collection services will be monitored to identify:
 - Best practices that could be adopted by other collection sites
 - Geographic areas that would benefit from additional collection service
 - Collection sites that are not used by residents.



Pick-up, Transport & Management

- Agreements will be established with licensed transporters and processors
- Transporters and processors will be required to meet program operational standards including timely pick-up services, tracking of materials and compliance with regulatory requirements
- Collection sites will be serviced by transporters either on a regular schedule or an on-call basis, as appropriate for a specific collection site
- Refillable pressurized cylinders delivered by residents to a program collection location will be transported to a facility where:
 - Cylinders will be inspected, recertified, refilled, and returned to the exchange system / other reuse opportunities; or
 - If a cylinder cannot be recertified, the residual gas and cylinder will be properly managed
- Empty non-refillable cylinders will be transported to a facility where the residual gas and cylinder will be properly managed

Promotion & Education

- Focus on the following objectives:
 - Increasing awareness of how to properly manage pressurized cylinders;
 - Encouraging the use of the 20 lb refillable cylinder exchange system; and
 - Influencing behavior change to manage non-refillable pressurized cylinders through delivery to the program collection network.
- Education and outreach to engage Connecticut residents will be provided through communication tools such as:
 - Program website that provides a central hub to educate consumers on why, how, and where to recycle cylinders accepted by the program. The website will include a list of searchable collection locations by address and zip code that will be regularly updated to ensure timely, accurate information for consumers. Search-engine optimization (SEO) will make the website more visible on search engines like Google, and the website address will be featured prominently in communications. In addition, the website will include program annual reports.
 - Print materials, including messaging and graphics that can be used in brochures, fact sheets, backgrounders, fliers, signs and posters at partner locations (e.g., state parks, municipal and retail locations)
 - Development of The Cylinder Collective logo that could be used by members as part of product labels to assist with messaging.

Performance Goal

	Collection and Diversion
Accessibility (both refillable and non-refillable cylinders)	At a minimum in the first year, 50 collection sites or events in the State
Non-Refillable Cylinder Performance Target	By the 5 th year of the program, 100,000 cylinders collected per year

- A performance target for refillable cylinders has not been proposed as it is not possible to determine the percentage of cylinders not returned through the exchange system.
- However, PGANE may propose a performance target once their program is underway and baseline data has been collected.

Tracking & Measuring Performance

- Proposed annual performance metrics for refillable and non-refillable:
 - # of collection locations by type (municipal, campground, park, retail) and # of special events in each county
 - # of refillable and non-refillable cylinders collected
 - # of refillable cylinders recycled/reused (i.e., returned to the exchange system and number sent to scrap metal recyclers)
 - Tons of non-refillable cylinders sent to scrap metal recyclers
 - Collection Rate (%) = $\left[\frac{\text{Tons of non-refillable cylinders collected}}{\text{tons of non-refillable cylinders supplied to consumers}} \right] \times 100$
 - Diversion Rate (%) = $\left[\frac{\text{Tons of non-refillable cylinders recycled}}{\text{tons of non-refillable cylinders supplied to consumers}} \right] \times 100$

Questions & Feedback

Annie Lane

Chair, The Cylinder Collective

annie.lane@wthg.com

614-512-3293

Peter Hargreave

Policy Integrity Inc.

phargreave@policyintegrity.ca

905-741-2171